



The Abdus Salam
International Centre for Theoretical Physics



Latin American Tutorial in High Performance and GRID Computing

22 - 27 June 2009
Medellin (Antioquia), Colombia

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, in collaboration with the Universidad de Antioquia, Universidad Pontificia Bolivariana, Universidad de los Andes and the CPN/SENAMHI are organizing the **Latin American Tutorial in High Performance and GRID computing, to take place in Medellin, Colombia, from 22 to 27 June 2009.**

The aim of this Tutorial is to introduce active researchers, young scientists, engineers and system managers of Latin America in general, and Colombia in particular, in the use and application of new paradigms in computation science. The tutorial is explicitly designed to teach students and researchers basic and advanced computer science skills with emphasis on using and building HPC/GRID resources for scientific applications. We will provide an introduction to computer software and hardware, with the goal of teaching participants how to effectively set up, use and program computers for their research. Special focus will be put on freely available open source software and how to design and construct their own computational facilities to be robust, failure tolerant and cost efficient.

Main goals of the Tutorial:

- Teach participants the basic skills needed to integrate and use HPC hardware and other tools in scientific and/or technical applications;
- Teach participants how to set up and maximally exploit limited HPC resources for their scientific and technical needs;
- Provide the opportunity for participants to apply the concepts of this school to their own specific scientific computing needs via communication with tutors during this course.

Participants should have a basic knowledge of Linux O.S. and of a programming language (i.e. FORTRAN/ C/C++).

The Tutorial's program will be intensive during the **whole week from Monday to Saturday**. A **poster session** will also be included, and we encourage applicants willing to present a poster contribution to **submit a one-page abstract** with their application form.

Please remember to attach to your application form the **"Questionnaire sheet"**, which is **obligatory** (form available on the activity's web page).

PARTICIPATION

Scientists and students from all countries that are members of the United Nations, UNESCO or IAEA may attend the activity. Given the regional character of the initiative, applications from Latin America will be privileged. As it will be conducted in English, participants must have an adequate working knowledge of this language. As a rule, travel and subsistence expenses of the participants are borne by their home institutions. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants, who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only to those attending the entire activity. There is no registration fee for attending the activity.

HOW TO APPLY FOR PARTICIPATION

The Application form can be accessed via the ICTP activity agenda page at: <http://agenda.ictp.it/smr.php?2074>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form. Deadline for receipt of applications is: **15 February 2009**

For queries kindly contact: Prof. Jorge I. ZULUAGA, Institute of Physics, Univ. of Antioquia, Medellin, Colombia (e-mail: <mailto:jzuluaga@udea.edu.co>).

Website in Colombia for this Event: <http://urania.udea.edu.co/lathpcg2009>

ICTP E-mail: <mailto:smr2074@ictp.it>

Home Page: <http://www.ictp.it>



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15 February 2009

**LIMITED PARTICIPATION:
30 PARTICIPANTS**

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